



1600

RAW SEQUENCE LISTING

DATE: 11/05/2002

PATENT APPLICATION: US/09/629,596D

TIME: 15:58:05

Input Set : A:\UGR-100X.ST25.txt

Output Set: N:\CRF4\11052002\I629596D.raw

3 <110> APPLICANT: Adang, Michael J
 4 Kasman, Laura M
 6 <120> TITLE OF INVENTION: Phage Display of the Biologically Active Bacillus
 thuringiensis Toxin
 8 <130> FILE REFERENCE: UGR-100X
 10 <140> CURRENT APPLICATION NUMBER: US 09/629,596D
 11 <141> CURRENT FILING DATE: 2000-07-31
 13 <150> PRIOR APPLICATION NUMBER: US 60/146,646
 14 <151> PRIOR FILING DATE: 1999-07-30
 16 <160> NUMBER OF SEQ ID NOS: 14
 18 <170> SOFTWARE: PatentIn version 3.1
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 22 <212> TYPE: DNA
 23 <213> ORGANISM: Artificial Sequence
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: LK01 primer
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 45 <211> LENGTH: 20
 46 <212> TYPE: DNA
 47 <213> ORGANISM: Artificial Sequence
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 50 <223> OTHER INFORMATION: LK04
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74 <223> OTHER INFORMATION: PPELB primer
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84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: PCRY1 primer
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91 atccgataaa tagctagcta aattggacac ttgatcaata tgataatccg 50
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95 <211> LENGTH: 7
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99 <220> FEATURE:
100 <223> OTHER INFORMATION: C-terminal sequence of synthetic Cry1Ac from Figure 1
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104 Met Asp Asn Asn Pro Asn Ile
105 1 5
108 <210> SEQ ID NO: 8
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110 <212> TYPE: PRT
111 <213> ORGANISM: Artificial Sequence
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114 <223> OTHER INFORMATION: N-terminal sequence of synthetic Cry1Ac from Figure 1
116 <400> SEQUENCE: 8
118 Arg Phe Glu Phe Ile Pro Val Thr Ala Thr Leu Glu
119 1 5 10
122 <210> SEQ ID NO: 9
123 <211> LENGTH: 15
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: C-terminal sequence of Cry1Ac-fUSE5 and Cry1Ac-Kpn-fUSE5
from
129 Figure 1
131 <220> FEATURE:
132 <221> NAME/KEY: MISC_FEATURE
133 <222> LOCATION: (1)..(3)
134 <223> OTHER INFORMATION: Part of signal sequence
137 <220> FEATURE:
138 <221> NAME/KEY: MISC_FEATURE
139 <222> LOCATION: (5)..(8)
140 <223> OTHER INFORMATION: Junction between signal sequence and C-terminus of synthetic

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141 CrylAc

144 <220> FEATURE:

145 <221> NAME/KEY: MISC_FEATURE

146 <222> LOCATION: (9)..(15)

147 <223> OTHER INFORMATION: C-terminal sequence of synthetic CrylAc

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152 His Ser Ala Asp Gly Pro Leu Ala Met Asp Asn Asn Pro Asn Ile

153 1 5 10 15

156 <210> SEQ ID NO: 10

157 <211> LENGTH: 26

158 <212> TYPE: PRT

159 <213> ORGANISM: Artificial Sequence

161 <220> FEATURE:

162 <223> OTHER INFORMATION: N-terminal sequence of CrylAc-fUSE5 and CrylAc-Kpn-fUSE5

from

163 Figure 1

165 <220> FEATURE:

166 <221> NAME/KEY: MISC_FEATURE

167 <222> LOCATION: (1)..(8)

168 <223> OTHER INFORMATION: N-terminal sequence of synthetic CrylAc

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172 <221> NAME/KEY: MISC_FEATURE

173 <222> LOCATION: (9)..(17)

174 <223> OTHER INFORMATION: Junction between synthetic CrylAc and cpIII

177 <220> FEATURE:

178 <221> NAME/KEY: MISC_FEATURE

179 <222> LOCATION: (18)..(26)

180 <223> OTHER INFORMATION: Portion of cpIII protein

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189 Ser Gly Ala Glu Thr Val Glu Ser Cys Leu

190 20 25

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195 <212> TYPE: PRT

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198 <220> FEATURE:

199 <223> OTHER INFORMATION: Protein sequence of WT-fUSE5 from Figure 1

201 <400> SEQUENCE: 11

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204 1 5 10 15

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208 20 25 30

211 Val Glu Ser Cys Leu

212 35

215 <210> SEQ ID NO: 12

216 <211> LENGTH: 20

217 <212> TYPE: PRT

218 <213> ORGANISM: Artificial Sequence

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220 <220> FEATURE:
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 225 <222> LOCATION: (1)..(13)
 226 <223> OTHER INFORMATION: PelB leader sequence
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 230 <221> NAME/KEY: MISC_FEATURE
 231 <222> LOCATION: (14)..(20)
 232 <223> OTHER INFORMATION: C-terminal sequence of CrylAc
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 238 1 5 10 15
 241 Asn Pro Asn Ile
 242 20
 245 <210> SEQ ID NO: 13
 246 <211> LENGTH: 12
 247 <212> TYPE: PRT
 248 <213> ORGANISM: Artificial Sequence
 250 <220> FEATURE:
 251 <223> OTHER INFORMATION: Internal sequence of CrylAc-SZ from Figure 1
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 254 <221> NAME/KEY: MISC_FEATURE
 255 <222> LOCATION: (1)..(12)
 256 <223> OTHER INFORMATION: Portion of CrylAc protein sequence
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 262 1 5 10
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 267 <212> TYPE: PRT
 268 <213> ORGANISM: Artificial Sequence
 270 <220> FEATURE:
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 273 <220> FEATURE:
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 275 <222> LOCATION: (1)..(4)
 276 <223> OTHER INFORMATION: Portion of CrylAc protein sequence
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 281 <222> LOCATION: (5)..(11)
 282 <223> OTHER INFORMATION: Junction between CrylAc and cpIII
 285 <220> FEATURE:
 286 <221> NAME/KEY: MISC_FEATURE
 287 <222> LOCATION: (12)..(20)
 288 <223> OTHER INFORMATION: Portion of cpIII protein
 291 <400> SEQUENCE: 14
 293 Val Ser Asn Leu Ala Ser Gly Gly Gly Gly Ser Pro Phe Val Cys Glu
 294 1 5 10 15

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297 Tyr Gln Gly Gln

298 20

VERIFICATION SUMMARY

DATE: 11/05/2002

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